

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

HONG et al.

Atty. Ref.: 2826-9

Serial No. unknown

Group:

Filed: January 17, 2002

Examiner:

For: METHOD AND APPARATUS FOR CUTTING A MULTI-LAYER SUBSTRATE  
BY DUAL LASER IRRADIATION

\* \* \* \* \*

January 17, 2002

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**PRELIMINARY AMENDMENT**

In order to place the above-identified application in better condition for  
examination, please amend the application as follows:

**IN THE CLAIMS**

Please substitute the following amended claims for corresponding claims  
previously presented. A copy of the amended claims showing current revisions is  
attached.

4) A method according to claim 1 wherein the substrate is composed of plural layers.

6) A method according to claim 4 wherein each said layer comprises different materials or combinations of materials.

8) A method according to claim 1 including the additional step of optically monitoring the cutting region, the cutting process being controlled in response to the said optical monitoring.

12) Apparatus according to claim 1 wherein the substrate is composed of plural layers.

14) Apparatus according to claim 9 wherein at least two of the said laser beams provide laser light having different parameters.

16) Apparatus according to claim 12 wherein each said layer comprises different materials or combinations of materials.

18) Apparatus according to claim 9 wherein beam splitter means are provided so that at least two laser beams are derived from the same laser source.

19) Apparatus according to claim 9 wherein optical monitoring means are provided for optically monitoring the cutting region, means being provided to control the cutting process in response to the said optical monitoring

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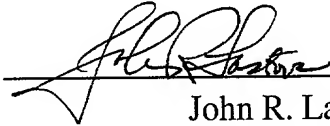
**REMARKS**

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page(s) is captioned "**Version With Markings To Show Changes Made.**"

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS

- 4) A method according to ~~any previous claim~~ 1 wherein the substrate is composed of plural layers.
- 6) A method according to claim 4 ~~or claim 5~~ wherein each said layer comprises different materials or combinations of materials.
- 8) A method according to ~~any previous claim~~ 1 including the additional step of optically monitoring the cutting region, the cutting process being controlled in response to the said optical monitoring.
- 12) Apparatus according to ~~any previous claim~~ 1 wherein the substrate is composed of plural layers.
- 14) Apparatus according to ~~any of claims 9—13~~ wherein at least two of the said laser beams provide laser light having different parameters.
- 16) Apparatus according to ~~any of claims 12—15~~ wherein each said layer comprises different materials or combinations of materials.

18) Apparatus according to ~~any of~~ claims 9—17 wherein beam splitter means are provided so that at least two laser beams are derived from the same laser source.

19) Apparatus according to ~~any of~~ claims 9—18 wherein optical monitoring means are provided for optically monitoring the cutting region, means being provided to control the cutting process in response to the said optical monitoring